## PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
10003091W001 International application No.	International filing date (day/month/ye	
Themational application No.		
PCT/JP2004/017670	22/11/2004	25/11/2003
Applicant CANON KABUSHIKI KAISHA	Ann	
according to Article 18. A copy is being to This International Search Report consists	ransmitted to the International Bureau. s of a total of sheets	
X It is also accompanied by	y a copy of each prior art document cited	in this report.
language in which it was filed, ur	aless otherwise indicated under this item. I search was carried out on the basis of a	the basis of the international application in the translation of the international application furnished to
		closed in the international application, see Box No. I.
2. Certain claims were for	und unsearchable (See Box II).	
3. Unity of invention is lac	cking (see Box III).	
4. With regard to the title,		
the text is approved as s	ubmitted by the applicant.	
<u></u>	shed by this Authority to read as follows:	
SYSTEM AND METHOD FOR MEANS OF ELECTROMAGNE		LAYERS OF A MULTILAYER OBJECT BY
5. With regard to the abstract,		
<u> </u>	submitted by the applicant.	
the text has been establi may, within one month fr	om the date of mailing of this internation	Authority as it appears in Box No. IV. The applicant all search report, submit comments to this Authority.
6. With regard to the drawings,		•
	published with the abstract is Figure No.	_2
X as suggested by		t to suggest a figure
	nis Authority, because the applicant failed	
	his Authority, because this figure better c	naracterizes the invention.
b none of the figures is to	be published with the abstract.	

International application No.

#### **INTERNATIONAL SEARCH REPORT**

PCT/JP2004/017670

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A system or method is adapted for counting the number of layers of a multilayer object such as a stuck of paper. An electromagnetic wave is caused to strike the surface of the multilayer object. Signals of the waves generated by reflection at the respective interfaces of the layers are evaluated to count the number of layers. Alternatively, the phase of the electromagnetic wave transmitted through the multilayer object, is evaluated to determine the number of layers. It is proposed to use frequencies from 30 GHz to 100 THz, ie. microwaves, millimeter waves and infrared waves.

#### INTERNATIONAL SEARCH REPORT

International Application No PCT / JP 2004 / 017670

PCT/JP2004/017670 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01B15/02 G06M G06M9/00 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 G01B G06M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication. where appropriate, of the relevant passages Relevant to claim No. Category \* X PATENT ABSTRACTS OF JAPAN 6-8 vol. 007, no. 012 (M-186) 19 January 1983 (1983-01-19) & JP 57 170347 A (SHINODA SETSUKEI JIMUSHIYO:KK). 20 October 1982 (1982-10-20) 1-5,9-13abstract 1 - 13Α PATENT ABSTRACTS OF JAPAN vol. 018, no. 624 (P-1833). 28 November 1994 (1994-11-28) & JP 06 241763 A (TOPPAN PRINTING CO LTD), 2 September 1994 (1994-09-02) cited in the application abstract -/--X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention 'E' earlier document but published on or after the International "X" document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. \*O\* document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date clalmed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 28 February 2005 09/03/2005 Authorized officer Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

international Application No
PCT/JP2004/017670

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Polovant to claim No.		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	DE 199 22 125 A1 (BOEWE SYSTEC AG) 30 November 2000 (2000-11-30) column 3, line 59 - column 7, line 47; figures 1-5	1-13		
A	US 5 539 322 A (ZOUGHI ET AL) 23 July 1996 (1996-07-23) column 3, line 52 - column 6, line 16; figures 1-4	1-13		
A	US 3 490 037 A (ROYSON V. WILLIAMS) 13 January 1970 (1970-01-13) column 2, line 41 - column 3, line 10; figure 1	1-13		
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### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2004/017670

	Publication date		Patent family member(s)	Publication date
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